

POLYMER  
METERING &  
MIXING  
SYSTEMS



RIM (Resin Infusion Moulding)  
Bonding of sheet components



COMPOSITE



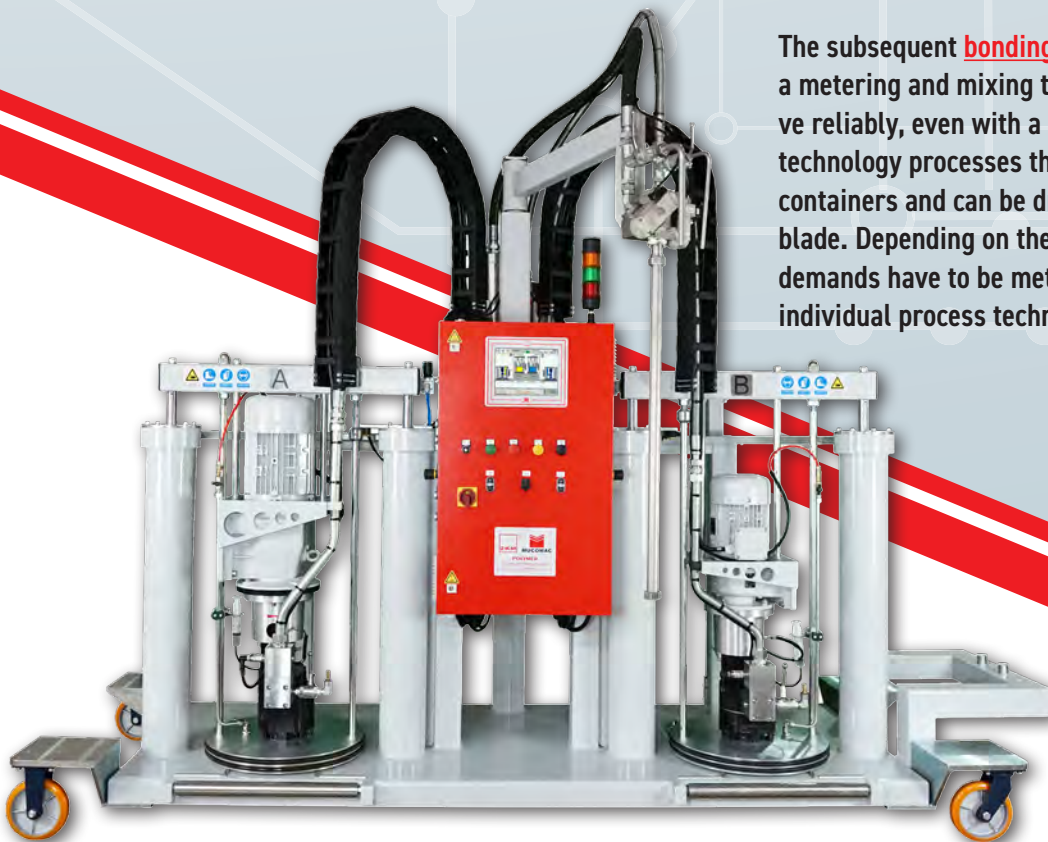
# OPTIONS

The use of wind energy as a possible energy supplier of the future requires the use of composite materials for the production of rotor blades. Different manufacturing processes are required for the production of these rotor blades. In this process, glass fibre fabrics are cast in a mould with epoxy resin (thin resin) under vacuum. In a later process, these composite components are bonded with another epoxy resin. Due to the ever-increasing size of the components, there are always new demands on the machine and process technology (material preparation/de-gassing). 2KM Mucomac is one of the leading developers and manufacturers of machines for material preparation and production of rotor blades.



These two process steps of thin resin processing in the **RIM (Resin Infusion Moulding)** process for the individual rotor blade components and the subsequent bonding to form the finished rotor blade are simplified in a process-safe manner with the 2KM Mucomac metering technology. The thin resin is processed with the **ResinMix**, which meters the thin resin in the mixing ratio. To prevent possible defects caused by air inclusions in the finished component, the thin resin must be prepared beforehand. Here, the gas dissolved in the material is degassed either discontinuously in a separate processing step or continuously directly in the processing process. 2KM Mucomac offers the necessary process engineering for both requirements.

The subsequent **bonding of the sheet components** requires a metering and mixing technology that applies the adhesive reliably, even with a high discharge rate. The **PolyMix** technology processes the adhesive directly from the 200 l containers and can be drawn along the length of the rotor blade. Depending on the customer's requirements, various demands have to be met. 2KM Mucomac also offers the individual process technology for your project.



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